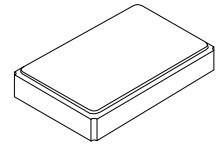




XTL1002

10 MHz Crystal Unit



SM5032-4 Case

- **Surface Mount Seam Weld Package**
- **Excellent Reliability Performance**
- **Good Frequency Perturbation and Stability over Temperature**

The XTL1002 is a surface mount 5.0 x 3.2 mm crystal unit for use in wireless telecommunications devices, especially for a need of ultra miniature package for mobility.

Electrical Characteristics

Characteristic	Sym	Notes	Minimum	Typical	Maximum	Units
Nominal Frequency				10		MHz
Mode of Oscillation			Fundamental			
Storage Temperature Range			-40		+85	°C
Operating Temperature Range			-20		+70	°C
Frequency Stability over Operating Temperature Range			±20 ppm (referred to the value at 25°C)			
Frequency Make Tolerance	FL		±20 ppm @ 25°C ±3°C			
Equivalent Series Resistance	ESR				100	Ω
Nominal Drive Level				10		uW
Shunt Capacitance	Co				3	pF
Load Capacitance	CL			12		pF
Insulation Resistance			500 MΩ min./DC 100V			
Lid Symbolization (Y=year, WW=week, S=shift)			line 1: 1002 line 2: YWWS			



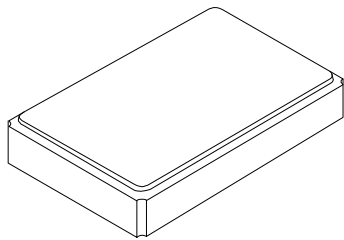
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

Notes:

1. The design, manufacturing process, and specifications of this device are subject to change without notice.

SM5032-4 Case

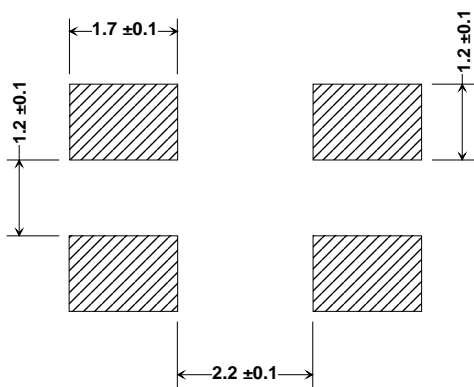
4-Terminal Surface-Mount Seam Weld Case 5.0 x 3.2 mm Nominal Footprint



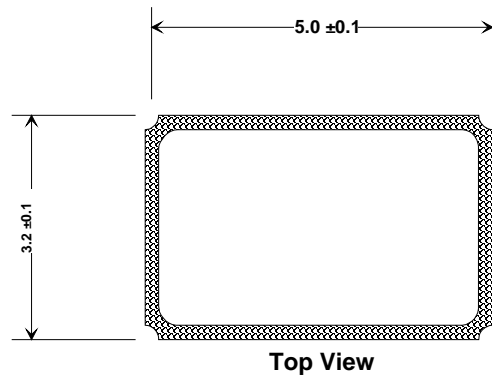
Electrical Connections

Pin	Connection
1	GND
2	IN/OUT
3	GND
4	IN/OUT

Note: Pin #1 & #3 are connected to metal cap on top



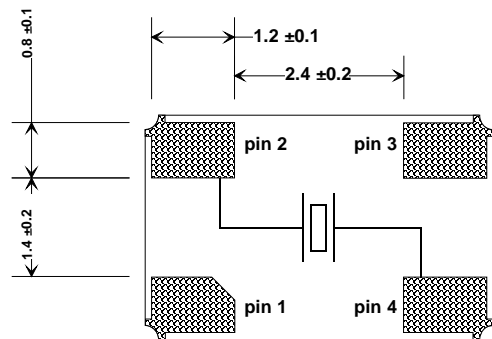
Footprint (mm)



Top View

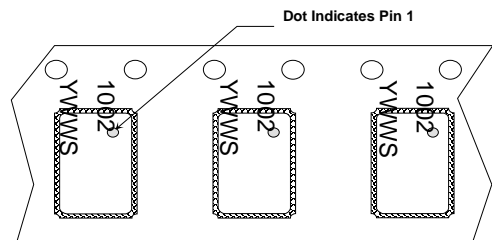


Side View



Bottom View

Package Dimensions (mm)



Package Orientation in Carrier Tape